

CLAIMS

Please amend the claims as follows:

Listing of Claims

1. (Currently Amended) A method of transferring a file to or from a server past a firewall, comprising the steps of:

accessing a web site behind the firewall, the web site having a web page including an applet, and the web site associated with the server;

receiving the web page and the applet from the web site;

sending the applet to an application at a file transfer gateway; and

transferring the file between the file transfer gateway and the server through the firewall;

wherein the file is pushed from the server through the firewall to the file transfer gateway by a target registering with the server behind the firewall, polling the server for files to be downloaded, and downloading the file from the server through the firewall over a virtual channel and by a server receiving a registration at the server behind the firewall, receiving polling of the server for files to be downloaded, and downloading the file from the server through the firewall over a virtual channel.

2. (Original) A method as in claim 1, wherein the web site is at a collaboration manager separate from the server.
3. (Original) A method as in claim 1, wherein the applet is signed responsive to authorization of a user accessing the web site.
4. (Original) A method as in claim 1, wherein accessing the web site and receiving the web page and the applet are performed using a web browser.
5. (Original) A method as in claim 4, wherein the web browser and the file transfer gateway are implemented on a client.
6. (Original) A method as in claim 1, wherein the application at the file transfer gateway is a file transfer service implemented on a client or edgebox.
7. (Original) A method as in claim 6, wherein transferring the file between the file transfer gateway and the server is performed over a virtual channel between the file transfer service at the file transfer gateway and a file transfer adapter at the server.
8. (Original) A method as in claim 1, wherein the file is transferred in chunks.
9. (Previously presented) A method as in claim 8, wherein the chunks are transferred using a basic hypertext transport mechanism.

10. (Original) A method as in claim 1, further comprising the step of encrypting, decrypting, or performing some other operation on the file before or after transferring the file.
11. (Currently Amended) A method of transferring a file to or from a server past a firewall, comprising the steps of:
 - authenticating access by a requestor to a web site behind the firewall, the web site having a web page including an applet, and the web site associated with the server;
 - sending the web page and the applet to the requestor;
 - receiving a request from the requestor to transfer the file to or from the requestor; and
 - transferring the file between the file transfer gateway and the server through the firewall;

wherein the file is pushed from the server through the firewall to the file transfer gateway by a target registering with the server behind the firewall, polling the server for files to be downloaded, and downloading the file from the server through the firewall over a virtual channel and by a server receiving a registration at the server behind the firewall, receiving polling of the server for files to be downloaded, and downloading the file from the server through the firewall over a virtual channel .
12. (Original) A method as in claim 11, wherein the requestor is a browser or edgebox.

13. (Original) A method as in claim 11, wherein the applet is signed responsive to authorization of the requestor.
14. (Original) A method as in claim 11, wherein the web site is at a collaboration manager separate from the server.
15. (Original) A method as in claim 11, wherein transferring the file between the file transfer gateway and the server is performed over a virtual channel between a file transfer service at the file transfer gateway and a file transfer adapter at the server.
16. (Original) A method as in claim 11, wherein the file is transferred in chunks.
17. (Original) A method as in claim 16, wherein the chunks are transferred using a basic hypertext transport mechanism.
18. (Original) A method as in claim 11, further comprising the step of encrypting, decrypting, or performing some other operation on the file before or after transferring the file.
19. (Currently Amended) A method of downloading a file from a server past a firewall, comprising the steps of:
 - registering with the server behind the firewall;

polling the server for files to be downloaded; and
downloading the file from the server through the firewall over a virtual channel;
wherein the file is transferred in chunks using a basic hypertext transport mechanism;
and

wherein the file is pushed from the server through the firewall by a target registering with the server behind the firewall, polling the server for files to be downloaded, and downloading the file from the server through the firewall over a virtual channel and by a server receiving a registration at the server behind the firewall, receiving polling of the server for files to be downloaded, and downloading the file from the server through the firewall over a virtual channel.

20. (Original) A method as in claim 19, further comprising the step of encrypting, decrypting, or performing some other operation on the file before or after transferring the file.

21. (Currently Amended) A method of downloading a file from a server past a firewall, comprising the steps of:

receiving a registration at the server behind the firewall;
receiving polling of the server for files to be downloaded; and
downloading the file from the server through the firewall over a virtual channel;
wherein the file is transferred in chunks using a basic hypertext transport mechanism;

wherein the file is pushed from the server through the firewall by a target registering with the server behind the firewall, polling the server for files to be downloaded, and downloading the file from the server through the firewall over a virtual channel and by a server receiving a registration at the server behind the firewall, receiving polling of the server for files to be downloaded, and downloading the file from the server through the firewall over a virtual channel.

22. (Original) A method as in claim 21, further comprising the step of encrypting, decrypting, or performing some other operation on the file before or after transferring the file.